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| HEWLETT-PACKARD COMPANY | | | TRAN, LY T | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| H'A | | | | | |
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| | Application No. | Applicant(s) | | | |
| | 10/616,809 | RASMUSSEN ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| The MAILING DATE AND COMMISSION OF THE COMMISSIO | Ly T. TRAN | 2853 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE! | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| Responsive to communication(s) filed on <u>RCE filed 7/7/05</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 46-104 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 63,65,68-85,91 and 93-104 is/are allowed. 6) Claim(s) 46-62,64,66,67,86-90, 92 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposition and accomposition are accomposition. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine. | epted or b) objected to by the bed drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d). | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | | | | |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 7/7/05 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 46-62, 64, 66, 67, 86-90 and 92 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoshimura (USPN 5,818,487)

With respect to claim 46, Yoshimura disclosed an apparatus of an inkjet printing system comprising (in the claims the ink is ejected on the second side of the media):

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- A primary drive roller rotatably mounted on an entry side of the print zone and adapted to contact the print media and advance the print media through the print zone (FIG. 3: Element 116)
- A pinch roller rotatably mounted opposite the primary drive roller and adapted to contact the print media (FIG. 3: Element 121)
- A secondary drive roller/drive roller rotatably mounted on an exit side of the print zone and adapted to contact a first side of the print media (FIG. 4: Element 126)
- A starwheel (131) rotatably mounted opposite the secondary drive roller and configured to move between a disengaged position in which starwheel is spaced from the media and an engaged position in which the starwheel contacts a second side of the print media (FIG. 4: Element 131);
- Since the applicant did not define the length of the trailing end portion of the
 print media, it appears that the circumference length of the starwheel
 disclosed by Yoshimura can be considered greater than a length of the
 trailing portion of the print media. And since Yoshimura discloses the same
 structure as the present invention with the starwheel, it appears that the
 starwheel is adapted to contact the print media for less than one revolution of
 the starwheel.
- Wherein the starwheel is prevented from contact with the secondary drive roller when in the engaged position (Fig.6 shows the starwheel 131 is in engaged position and doesnot contact the drive roller adapted to be moved to

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the engaged position after the secondary drive roller contacts the first side of the media (Fig.6: element 131 is in engage position);

Selectively actuating the wheel includes moving the wheel between a first position in which the wheel is spaced from the print media (fig.4) and a second position in which the wheel contacts the print media including moving the starwheel to the second position and contacting the second side of the media with the starwheel after the drive roller contacts the first side of the media (FIG. 6) and since the applicant does not define the length of the final length of the media, it appears that moving the starwheel to the second position when the final length of the media to be advanced through the print zone is less than a circumference of the starwheel.

With respect to claim 47, Yoshimura discloses the primary drive roller (element 116) is adapted to contact the first side of the media and the pinch roller (121) is adapted to contact the second side of the print media.

With respect to claim 48, Yoshimura discloses the print zone is defined to the second side of the print media and the printer is adapted to print on the second side of the print media (FIG. 7).

With respect to claim 49, the secondary drive roller and starwheel are adapted to advance the print media through the print zone (FIG. 6: Element 126, 131)

With respect to claim 50, Yoshimura discloses the starwheel is adapted to be in the engaged position when the secondary drive roller contacts the first side of the print media (FIG. 6: Element 131)

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With respect to claim 51, Yoshimura discloses the print media has a leading portion and a trailing portion, and wherein the starwheel is adapted to be in disengaged position before the secondary drive roller contacts the leading portion of the print media (Fig.7)

With respect to claim 52, Yoshimura discloses the starwheel is adapted to be moved to the engaged position after the secondary drive roller contacts the leading portion of the media (Fig.6).

With respect to claims 53 and 54, Yoshimura discloses the starwheel is adapted to be in the engaged position after the primary drive roller contacts the trailing portion of the print media and the starwheel is adapted to be in engaged position when the trailing end of the media exit the print zone (fig.7, Column 6: line 48-58).

With respect to claims 55-57 and 92, since the applicant does not define the length of the trailing portion and the final length of the media, it appears that the length of the trailing end portion of the media is less than a circumference of the starwheel. Also, the starwheel is adapted to be moved to the engaged position when a final length of the print media to be advanced through the print zone is less than a circumference of the starwheel. Since Yoshimura discloses the same structure as the present invention with the starwheel, it appears that the starwheel is adapted to contact the print media for less than one revolution of the starwheel.

With respect to claim 84, Yoshimura discloses contacting the first side of the media with the drive roller and contacting the second side of the media with the

starwheel including advancing the print media through the print zone with the drive roller and the starwheel (Fig.6).

With respect to claims 58, 89, 90 and 86, Yoshimura discloses an apparatus and a method of a printing system (in these claims, the ink is ejected on the first side of the media) comprising:

- A printhead assembly adapted to eject ink drops toward a first side of the print media into a print zone between the printhead assembly and the print media to print on the print media (Column 6: Line 7-16);
- Print media transport system adapted to route the media through the print system comprising:
- A drive roller rorarably mounted on an exit side of the print zone and adapted to contact a second side of the media (fig.3: element 126);
- A starwheel rotatable mounted opposite the drive roller and configured to
 move between a disengaged position in which the starwheel in spaced from
 the media (fig.4) and an engaged position in which the starwheel contacts the
 first side of the media (Fig.6);
- Wherein the starwheel is prevented from contacts with the drive roller when in the engaged position (Fig.6 shows starwheel 131 is in engaged position and not contact with the drive roller) adapted to be moved to the engaged position after the drive roller contacts the second side of the media (fig.6);

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 Selectively actuating the wheel includes providing the wheel in the first position before contacting the first side of the print media with the drive roller (FIG. 4)

- selectively contact the second side of the print media based on a position of the print media (FIG. 4: Element 131, Fig.6: element 131)
- moving the starwheel to the second position while advancing the media through the print zone (fig.6).

With the claim 59, Yoshimura discloses the drive roller and the starwheel are adapted to advance the print media through the print zone (Fig.7).

With respect to claim 60, Yoshimura discloses the starwheel is adapted to be in the engaged position only when the drive roler contacts the second side of the media (Fig.6).

With respect to claim 61, Yoshimura discloses the media has leading and trailing portion, wherein the starwheel is adapted to be in the disengaged position before the drive roller contacts the leading end of the media (Fig.7).

With respect to claim 62, Yoshimura discloses the starwheel is adapted to be moved to the engaged position after the drive roller contacts the leading portion of the media (Fig.6).

With respect to claims 64, 66-67, 90 and 92, since the applicant did not define the length of the trailing and final portion of the print media, it appears that the circumference length of the starwheel disclose by Yoshimura can be considered greater than a length of the trailing portion of the print media and the starwheel is adapted to be

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moved to the engaged position when a final length of the print media to be advanced through the print zone is less than a circumference of the starwheel. And since Yoshimura discloses the same structure as the present invention with the starwheel, it appears that the starwheel is adapted to contact the print media for less than one revolution of the starwheel.

With respect to claim 87, Yoshimura discloses moving the starwheel between first and second position based on the position of the media during printing (Fig.4, 6).

With respect to claim 88, Yoshimura discloses that the starwheel is in the first position while feeding the media into the print zone (Fig.7).

Since Yoshimura discloses the same structure as present invention, the limitation of preventing from contact with the secondary drive roller is just a functional language, does not limit the claimed invention, the apparatus of Yoshimura is capable to operate in any ways that necessary.

Allowable Subject Matter

3. Claims 63, 65, 68-85, 91 and 93-104 are allowed.

The primary reason for the allowance of claims 78-82 and 83-85 is the inclusion of the limitation of an apparatus and a method of a media transport assembly comprising wherein the starwheel is prevented from contact with the secondary roller at all times and adapted to contact the print media for less than one revolution of the starwheel. It is limitation found in each claims, as it is claimed in the combination, that

has not been found, taught, or suggested by the prior art of record which makes these claims allowable over the prior art.

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Response to Arguments

4. Applicant's arguments filed 7/7/05 have been fully considered but they are not persuasive.

Applicant argues that Yoshimura does not disclose the starwheel is prevented from contacting with the secondary roller when in the engaged position. The argument is not deemed to be persuasive because refering to figure 6, the starwheel roller 131 is in engaged position in which the starwheel contacts a second side of the print media and is prevented from contacting the drive roller.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T. TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300...

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

July 27, 2005

Stephen D. Meier Primary Examiner

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